

ABSTRACT

Chromatic and polarization mode dispersion can be optically compensated with an All Optical Dispersion Compensator (AODC) of the present invention. The AODC compensates group delay in each polarization axis of an incoming dispersed signal pulse using multi-cavity Gires-Tournois resonators (MCGTR) and a feedback mechanism. Chromatic and polarization mode dispersion are compensated concurrently or independently.